

integer of from 1 to 500, m is an integer of from 1 to 12, and "polymer" comprises repeating monomer groups or multiple monomer groups.

17. The gyricon display of claim 1, wherein said particles having attached at least one group comprises  $-X-Sp-[A]_pR$ , wherein X represents an aromatic group or an alkyl group, Sp represents a spacer group, A represents an alkylene oxide group of from about 1 to 12 carbons, p represents an integer of from 1 to 500, and R represents hydrogen, a substituted or unsubstituted alkyl group, or a substituted or unsubstituted aromatic group.

18. The visual display device or display media of claim 2, wherein said particles are colored pigments, and wherein said organic group comprises at least one aromatic group, at least one  $C_1-C_{100}$  alkyl group, or mixtures thereof.

19. The visual display device or display media of claim 2, wherein said particles are carbon black.

20. The visual display device or display media of claim 2, wherein said at least one group comprises  $-X-Sp-[Nlon]_pR$ ,  $-X-Sp-[(-CH_2)_m-O-]_pR$ , or  $-X-Sp-[polymer]R$ , wherein X represents an aromatic group or an alkyl group, Nlon represents at least one non-ionic group, Sp represents a spacer group, R represents hydrogen, an aromatic group, or an alkyl group, p is an integer of from 1 to 500, m is an integer of from 1 to 12 and "polymer" comprises repeating monomer groups or multiple monomer groups.

21. The visual display device or display media of claim 2, wherein said particles having attached at least one group comprises  $-X-Sp-[A]_pR$ , wherein X represents an aromatic group or an alkyl group, Sp represents a spacer group, A represents an alkylene oxide group of from about 1 to 12 carbons, p represents an integer of from 1 to 500, and R represents hydrogen, a substituted or unsubstituted alkyl group, or a substituted or unsubstituted aromatic group.

22. The gyricon display of claim 7, wherein said organic group comprises at least one aromatic group, at least one  $C_1-C_{100}$  alkyl group, or mixtures thereof.

23. The gyricon display of claim 7, wherein said colored pigment is carbon black.

24. The gyricon display of claim 7, wherein said at least one organic group comprises  $-X-Sp-[Nlon]_pR$ ,  $-X-Sp-[(-CH_2)_m-O-]_pR$ , or  $-X-Sp-[polymer]R$ , wherein X represents an aromatic group or an alkyl group, Nlon represents at least one non-ionic group, Sp represents a spacer group, R represents hydrogen, an aromatic group, or an alkyl group, and p is an integer of from 1 to 500, m

is an integer of from 1 to 12, and "polymer" comprises repeating monomer groups or multiple monomer groups.

25. The gyricon display of claim 7, wherein said colored pigment having attached at least one organic group comprises  $-X-Sp-[A]_pR$ , wherein X represents an aromatic group or an alkyl group, Sp represents a spacer group, A represents an alkylene oxide group of from about 1 to about 12 carbons, p represents an integer of from 1 to 500, and R represents hydrogen, substituted or unsubstituted alkyl group, or a substituted or unsubstituted aromatic group.

(26) The capsule of claim 12, wherein said organic group comprises at least one aromatic group, at least one  $C_1-C_{100}$  alkyl group, or mixtures thereof.

(27) The capsule of claim 12, wherein said colored pigment is carbon black.

al 28. The capsule of claim 12, wherein said modified colored pigment having attached at least one organic group comprises  $-X-Sp-[Nlon]_pR$ ,  $-X-Sp-[(-CH_2)_m-O-]_pR$ , or  $-X-Sp-[polymer]R$ , wherein X represents an aromatic group or an alkyl group, a Nlon represents at least one non-ionic group, Sp represents a spacer group, R represents hydrogen, an aromatic group or an alkyl group, and p represents an integer of from 1 to 500, m is an integer of from 1 to 12, and "polymer" comprises repeating monomer groups or multiple monomer groups.

29. The capsule of claim 12, wherein said pigment having attached at least one organic group comprises  $-X-Sp-[A]_pR$ , wherein X represents an aromatic group or an alkyl group, Sp represents a spacer group, A represents an alkylene oxide group of from about 1 to about 12 carbons, p represents an integer of from 1 to 500, and R represents hydrogen, a substituted or unsubstituted alkyl group.